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PATENT
Docket No. 180.00120101

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Zhao Yi WANG) Group Art Unit: 1647
)
 Serial No.: 10/591,199) Examiner: Shulamith H. Shafer
 Confirmation No.: 4302)
)
 Filed: August 30, 2006)
)
 For: ESTROGEN RECEPTORS AND METHODS OF USE
 Patent Application Publication No.: 2007/0258895 A1

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Request for Correction and Republication of Patent Application Publication (2 pgs).
 Copy of the face page of the patent application publication with the requested correction marked (1 pg).
 Copy of the previously filed Application Data Sheet (2 pgs).
 Page one of the application as filed (1 pg).

 Small Entity Status is entitled to be asserted in the above-identified application.

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Signature: Deb Schurmann
 Name: Deb Schurmann

1 of 7

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REQUEST FOR CORRECTION AND REPUBLICATION
OF PATENT APPLICATION PUBLICATION

Mail Stop PGPUB
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

This paper is a request for correction and republication of the above-identified Patent Application Publication, which was published on November 8, 2007.

Applicant's Representatives identified the following errors made by the U.S. Patent and Trademark Office: on the face page of the publication, in the Related U.S. Application Data section, Provisional Application No. 60/522,067, filed on Aug. 10, 2004 is incorrect. The correct Provisional Application No. is 60/552,067, filed on March 10, 2004.

Enclosed is a copy of the face page of the patent application publication with the requested correction marked. Also enclosed is a copy of the previously filed Application Data Sheet and page one of the application as filed, both showing the correct provisional application number.

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Request for Correction and Republication of Patent Application Publication

Page 2 of 2

Applicant(s): Zhao Yi WANG

Serial No.: 10/591,199

Confirmation No.: 4302

Filed: August 30, 2006

For: ESTROGEN RECEPTORS AND METHODS OF USE

Pursuant to 37 C.F.R. §1.221(b), we request that the error indicated above be corrected, and that the above-identified Patent Application Publication be re-published without additional publication or processing fees.

CERTIFICATE UNDER 37 C.F.R. 1.8:

The undersigned hereby certifies that this paper is being transmitted by facsimile in accordance with 37 CFR §1.6(d) to the Patent and Trademark Office, addressed to: Mail Stop PGPub, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 3rd day of December, 2007, at 3:32 pm (Central Time).

By: Deb Schurmann
 Name: Deb Schurmann

Date

December 3, 2007

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Wang(54) ESTROGEN RECEPTORS AND METHODS
OF USE

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(21) Appl. No.: 10/591,199

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§ 371(c)(1),
(2), (4) Date: Jun. 13, 2007

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March 10, 2004

60/552,067

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| <i>C07H</i> | <i>21/04</i> | (2006.01) |
| <i>C07K</i> | <i>14/00</i> | (2006.01) |
| <i>C07K</i> | <i>16/00</i> | (2006.01) |
| <i>C07K</i> | <i>7/08</i> | (2006.01) |
| <i>C12N</i> | <i>1/19</i> | (2006.01) |
| <i>C12N</i> | <i>1/21</i> | (2006.01) |
| <i>C12N</i> | <i>5/02</i> | (2006.01) |
| <i>C12N</i> | <i>5/16</i> | (2006.01) |
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| <i>C12Q</i> | <i>1/02</i> | (2006.01) |
| <i>C12Q</i> | <i>1/68</i> | (2006.01) |
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435/7.93; 514/14; 530/327;
530/350; 530/387.9; 536/23.5

(57) ABSTRACT

The present invention provides isolated polypeptides having an amino acid sequence having at least 70% identity to SEQ ID NO:20, wherein the polypeptide has ER- α 36 activity. The invention further provides methods for identifying agents that bind to such polypeptides, methods for detecting such polypeptides, and methods for altering the activity of such polypeptides. Also provided are antibodies that specifically bind to an amino acid sequence depicted at SEQ ID NO:1, or an immunogenic fragment thereof, and methods for making and using such antibodies.

APPLICATION DATA SHEET

COPY

APPLICATION INFORMATION

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Computer Readable Form (CRF)?:: YES
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Correspondence Customer Number:: 26813

REPRESENTATIVE INFORMATION

Representative Customer Number:: 26813

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| This Application | National Stage of | PCT/US05/007857 | 03/10/05 |
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| PCT/US05/007857 | 119(e) of | 60/643,469 | 01/13/05 |

FOREIGN PRIORITY INFORMATION

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PATENT
Docket No. 180.00120201

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ESTROGEN RECEPTORS AND METHODS OF USE
CONTINUING APPLICATION DATA

COPY

This application claims the benefit of U.S. Provisional Application Serial No. 60/552,067, filed 10 March 2004, and 60/643,469, filed 13 January 10 2005, each of which is incorporated by reference herein.

Government Funding

The invention described herein was developed with support from the 15 Department of Health and Human Services under Grant Number CA84328. The U.S. Government has certain rights in the invention.

BACKGROUND OF THE INVENTION

20 Estrogen is a generic term for steroid compounds that are formed in the ovary, the testis, and possibly the adrenal cortex. Examples of estrogens and compounds having estrogen activity include diethylstilbestrol, fosfestrol, hexestrol, polyestradiol phosphate, broparoestrol, chlorotrianisene, dienestrol, diethylstilbestrol, methestrol, colpormon, equilenin, equilin, estradiol, estriol, 25 estrone, ethinyl estradiol, mestranol, mexestrol, quinestradiol and quinestrol. Estrogens regulate diverse physiological processes in reproductive tissues and in mammary, cardiovascular, bone, liver, and brain tissues. Estrogens are also used in oral contraceptives. Other uses for estrogens include the relief of the discomforts of menopause, inhibition of lactation, and treatment of 30 osteoporosis, threatened abortion, and various functional ovarian disorders. Anti-estrogens are used to treat metastatic breast carcinoma and advanced prostate cancer.